CLAIMS

1. An electric motor assembly (1) characterized by comprising a main electric motor (2) and an electric starter motor (3) whose operation is coupled, so that the electric starter motor (3) is suitable for starting the main electric motor.

2. An assembly according to claim 1, characterized in that the electric starter motor (3) has less power than the main electric motor (2).

3. An assembly according to claim 1, characterized in that the electric starter motor (3) has the same power as the main electric motor (2)

4. An assembly according to claim 3, characterized in that the electric starter motor (3) and main electric motor (2) have power ranging from 5 HP to 15 HP.

SUB A1

5. An assembly according to any one of claims 1 or 2, characterized in that the electric starter motor (3) has power ranging from 5 HP to 15 HP.

6. An assembly according to claim 5, characterized in that the electric starter motor (3) has power of approximately 15 HP.

SUB A2

7. An assembly according to any one of claims 1, 2, 5, or 6, characterized in that the main electric motor (2) has power of approximately 50 HP.

8. An assembly according to any one of claims 1 – 7, characterized in that the electric starter motor (3) is coupled to the main electric motor (2) by means of a rotation axle (4).

9. An assembly according to any one of claim 1 – 7, characterized in that the electric starter motor is coupled to the main electric motor by means of a pulley.

10. An assembly according to any one of claims 1 – 7, characterized in that the electric starter motor is coupled to the main electric motor by means of a gear.

11. A method of starting an electric motor, characterized by comprising the steps of actuating an electric starter motor whose operation is coupled to a main electric motor, while the main electric motor is maintained off until the nominal rotation of the main motor is reached, and then the main motor is started.

12. A method according to claim 11, characterized in that it further includes the step of switching off the electric starter motor, when the main electric motor reaches the nominal rotation of the electric starter motor, and actuating the main electric motor.

13. A method according to claim 12, characterized in that the electric starter motor is switched of simultaneously with the actuation of the main electric motor.

14. A method according to claim 12, characterized in that the electric starter motor is switched off just before the main electric motor is actuated.

15. A method according to claim 12, characterized in that the electric starter motor is switched off just after actuation of the main electric motor.

16. A method according to any one of claims 11 – 15, characterized in that the main electric motor is actuated just before reaching the nominal rotation.

17. A method according to any one of claims 11 – 15, characterized in that the main electric motor is actuated right after reaching the nominal rotation.